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PTO/SB/21 (09-04)

OTRANSMITTAL FORM		Application Number 10/698,689				
		Filing Date		October 31, 2003		
		First Named Inventor		C. Frank Bennett		
		Art Unit 1645				
(to be god for all collections)		Examiner Name	_	Not Yet Assigned		
Total Number of Pages in This Submiss		Attorney Docket Nu	mber	ISIS0229-100 (ISIS2960US.P2)		P2)
ENCLOSURES (check all that apply)						
Fee Transmittal Form	☐ Drawing(s	3)	Ī	After Allo	wance Communica	tion to TC
Fee Attached	Licensing	-related Papers			ommunication to Boals and Interference	
Amendment / Reply	Petition			Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)		
After Final		Convert to a al Application		Proprietary Information		
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Extension of Time Request	Terminal Disclaimer			Other Er	nclosure(s) entify below):	
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	☐ Lar	ndscape Table on CD				
Certified Copy of Priority Document(s)	Remarks					
Reply to Missing Parts/ Incomplete Application						
Reply to Missing Parts						
under 37 CFR1.52 or 1.53						
SIG	NATURE OF	APPLICANT, ATTOR	RNEY, OF	RAGENT		
Firm	Cozen O'Connor, P.C.					
Signature	RNO					
Printed Name	Paul K. Legaar	d				
Date	Date) o Tune 2000 Reg. No. 38,534					
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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.						
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Typed or printed name Paul K. L	egaard	-		Date	THNE 3 0,	Low

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JUL 0 5 2005 DOCKET NO. 1BIS0009-101 (ISPH-0794)

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commi	ssioner for Patents
Washington, DC	20231

Sir:

POWER OF ATTORNEY WITH REVOCATION AND CHANGE OF CORRESPONDENCE ADDRESS

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application, and appoint

above-identified application, and appoint

| X | Practitioners at Customer Number: 34138
| as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

| Please change the Correspondence Address for the above-identified application to:
| X | Practitioners at Customer Number: 34138

| I am the:
| Applicant/Inventor.
| X | Assignee of record of the entire interest. (A statement under 37 CFR 3.73(b) is enclosed.)

| Respectfully submitted, ISIS PHARMACEUTICALS, INC.

Date: 6/27/05

Name: Grantland E. Bryce

Title: Vice President, Legal and General Counsel



Assistant Commissioner for Patents Washington, DC 20231

Sir:

STATEMENT UNDER 37 CFR 3.73(b)

Applicant, ISIS Pharmaceuticals, Inc., a corporation, states that it is:

the assignee of the entire right, title, and interest of the applications identified in Table A attached hereto.

The extent (by, percentage) of its ownership interest is 100% in the patent applications identified in Table A by virtue of:

a copy of the pertinent assignment from the inventor(s) of the patent applications identified in Table A is enclosed herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,

ISIS PHARMACEUTICALS, INC.

Date: 6/27/05

Name: Grantland E. Bryce

Title: Vice President, Legal and General Counsel

TABLE A

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TITLE	Methods Of Using Mammalian Rnase H And Compositions Thereof	Method For Quantitating Oligonucleotides	Antisense Oligonucleotide Modulation Of Tumor Necrosis Factor-α (TNF-α) Expression	Human Rnase H And Compositions And Uses Thereof	Antisense Modulation Of CD40 Expression
ART UNIT	1637	1645	1636	1653	1645
EXAMINER	Not Yet Assigned	Not Yet Assigned 1645	Not Yet Assigned 1636	Not Yet Assigned 1653	Not Yet Assigned 1645
INVENTORS	Crooke, Lima, Wu	Baker, Yu, Leeds	Baker, Bennett	Crooke, Lima, Wu	Bennett, Cowsert, Malik, Siwkowski, Eldrup
FILING DATE	September 16, 2004	August 20, 2002	February 2, 2004	December 6, 2004	October 31, 2003
SERIAL NO.	10/943,194	10/130,036	10/770,970	11/005,069	10/698,689



PATENT

ASSIGNMENT

WHEREAS, we, C. Frank Bennett of Carlsbad, California and Lex M. Cowsert of Carlsbad, California and Leila Malik of Copenhagen Denmark and Andrew Siwkowski of Carlsbad California and Anne B. Eldrup of Ridgefield, Connecticut, have invented a certain invention entitled Antisense Modulation of CD40 Expression, for which we have made an application for Letters Patent of the United States, said application having been filed October 31, 2003 and assigned Application No. 10/698,689; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Furaday Avenue, Carlsbad, California 92008, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

PATENT

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AND we hereby covenant that we have full right to convey the entire interest herein assigned; and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: April 21, 2004

C. Frank Bennett

State of California
) ss.

County of San Diego

On this day of 2004, before me, the undersigned, a Notary Public for the state, personally appeared C. Frank Bennett, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Notary Public - California & Signature
Son Diego County
Fiy Comm. Spires Mar 8, 2005

PAMELA GROOMS

PATENT

Dated: 5/20/64, 20			JAM De
Paraghania State of California)	٠	Lex M. Cowsert
Ellegien County of S an Diego)	88,	

WITNESS my hand and official seal.

Signature of Notary

Notarial Seal Sara E. Naccarato, Notary Public Harmar Typ., Allegheny County My Commission Expires Feb. 14, 2005

Member, Pennsylvania Association of Notaries

On this ______ day of ______, 20____, before me, the undersigned, a Notary Public for the state, personally appeared Leila Malik, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

PATENT

TA MITHESS MHEK	EUr, we have here	unto set our nands and seats.
Dated: 413	_, 20 <u>64</u>	Andrew Siwkowski
State of California)	
County of San Diego) ss.)	
Notary Public for the state me/proved to me on the basis Assignment and acknowledge	 personally appear of satisfactory evide ed to me that he/she on the Assignment 	, 2064, before me, the undersigned, red Andrew Siwkowski, personally known ence to be the person who subscribed the foregoing executed the same in his/her authorized capacite the person, or the entity on behalf of which the

WITNESS my hand and official seal.

PATENT

Dated: March 26 ____, 2004

Anne B. Eldrup

State of Connecticut,

County of Janhald?

5S.

On this 24 day of March 2004, before me, the undersigned, a Notary Public for the state, personally appeared Anne B. Eldrup, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

CAROLYN M. O'BOYLE NOTARY PUBLIC MY COMMISSION EXPIRES MAR. 31, 2008

-, ASSIGNMENT - Page 7 of 8

DOCKET NO.: ISIS-	-5315				PATENT
STATEMENT OF V	VITNESS				
SIGNED at	Glostrup (City)			Denna (Country)	rk
	29/3, 20			(Country)	
I,	Magnus Gu	sta frson	<u> </u>	whos	e full
esidence address is_	Magnus Gu Frederiksvej	47 1	th	DK2000	Frederiksbe
vas personally present lay of 29/2 lescribed in such docu	and did see <u>Leik</u> , 200 <u>4</u> , and suc	a :h assignor	execute ti is persona	he above assignme ally known to me t	nt on the Man
	<u> </u>	Magn	n Bu	profise	
	Signa	ture of Wit	ness		

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